



REPUBLIC OF KENYA

**MINISTRY OF TRANSPORT, INFRASTRUCTURE,
HOUSING AND URBAN DEVELOPMENT**

(STATE DEPARTMENT OF PUBLIC WORKS)

**PROPOSED RENOVATION WORKS AT KARUNGA
PRIMARY SCHOOL.**

BILL OF QUANTITIES

COUNTY ARCHITECT
(STATE DEPARTMENT OF PUBLIC WORKS)
P.O. BOX 189 -00900
KIAMBU

COUNTY QUANTITY SURVEYOR
(STATE DEPARTMENT OF PUBLIC WORKS)
P.O. BOX 189 -00900
KIAMBU

COUNTY STRUCTURAL ENGINEER
(STATE DEPARTMENT OF PUBLIC WORKS)
P.O. BOX 189 -00900
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COUNTY ELEC/MECHANICAL ENGINEER
(STATE DEPARTMENT OF PUBLIC WORKS)
P.O. BOX 189 -00900
KIAMBU

APRIL 2021.

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	KARUNGA PRIMARY SCHOOL Renovation works				
	Phase 1 - Classrooms face-lift				
	<u>Floor Finishes</u> <u>Surface Preparations</u>				
	Floor screed				
A	Hack the floor screed and cart away the arising by spreading on site.	SM	1045		
	<u>Screed</u>				
	<u>In situ cement and sand (1:3) screeded beds, with Wood float finish, on concrete</u>				
B	32mm screed finished to receive ceramic tiles flooring	SM	1045		
	<u>Ceramic tiles</u>				
	<u>Supply and fix approved coloured non-slip ceramic floor tiles.</u>				
C	300 x 300mm ceramic floor tiles	SM	1045		
D	100 high x 25mm thick ceramic skirting	LM	330		
	<u>Plastering</u>				
	<u>12mm Cement and sand (1:3)render on stone or concrete work on:</u>				
E	Concrete or masonry walling / Beams Externally	SM	1300		
	<u>Painting and Decorations</u>				
	<u>Prepare and apply three coats silk vinyl matt emulsion paint or other and approved to;</u>				
F	External wall finishes	SM	1300		
	<u>Internal wall finishes</u>				
	<u>12mm Cement and sand (1:3)render on stone or concrete work on:</u>				
G	Internal wall	SM	1082		
	<u>Painting and Decorations</u>				
	<u>Prepare and apply three coats silk vinyl matt emulsion paint or other and approved to;</u>				
H	Internal walls surfaces	SM	1082		
J	C.H.S posts	LM	70		
	<u>REPLACEMENT OF DOORS</u>				
	<u>Bring down existing timber doors,salvage the materials as store them to designated area as directed;</u>				
K	900 x 2100mm timber doors	NO	17		
	<u>Roof Painting</u>				
	<u>Prepare and apply three coats silk vinyl matt emulsion paint or other and approved to;</u>				
L	Iron sheets and fiscia board (block 2)	SM	274		
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>Metal doors</u>				
	<u>Supply and fix the following purpose made mild steel lockable door comprising 100 x 50 x 3mm RHS vertical, top and middle rails, 200 x 50 x 3mm RHS bottom rail and fitted with 18 gauge mild steel louvers, oxidized and painted with 3 coats of vinyl paint to Architect's approval</u>				
	<u>Openable glazed panels</u>				
A	45mm thick mild steel plate door overall size 1100 x 2100mm high complete with 900 x 2100mm high casement glazed with 5mm thick clear glass, 100mm x 50mm x 4mm door frame secured to concrete or masonry jamb, all iron mongery, metal surfaces primed with zinc chromate red lead oxide primer and finished with gloss paint all done to the satisfaction of the Architect in accordance with Architectural drawings	NO	17		
	<u>ROOFING WORK (block 1)</u>				
	<u>(All Provisional)</u>				
	<u>The following in roof trusses with and including bolted connections including hoisting and fixing in position not exceeding 6.0 metres above ground floor level</u>				
	<u>In sawn celcure treated cypress Grade 2:</u>				
B	100 x 50mm Tie beam	LM	584		
C	100 x 50mm Rafters	LM	630		
D	75 x 50mm ties/struts	LM	515		
E	50 x 50mm Under purlins	LM	880		
F	150 x 50mm Ridge board	LM	220		
G	100 x 50mm wall plate fixed with and including 200mm long 10mm diameter rag bolts cast into beam at 1200mm centres	LM	220		
	<u>In mild steel</u>				
H	Allow for angle plates, gusset plates, washer plates, raw bolts etc	Item			
	<u>In wrot cypress - prime grade</u>				
J	200 x 25mm Fascia/verge board	LM	225		
	<u>Roof covering</u>				
	<u>Prepainted galvanised IT 5 gauge 24 profile sheets on Z-section purlins (m.s) pre formed box profile roofing sheets; including edging trim, fixing to steel structure, complete with approved washers, j-bolts, caps, plastic washers etc, including all necessary curvatures, hoisting, placing and connection: (measured nett, bidder to include for laps)</u>				
K	Roof covering curved to match existing	SM	946		
L	Ditto hip cap, 300mm wide	LM	110		
	TOTAL CARRIED TO COLLECTION				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>24 Gauge pressed steel shaped as required</u>				
A	150 x 150mm deep box gutter including joints in running length fixed to outside of fascia board with and including brackets at rafter centers	LM	200		
B	150 x 150mm downpipe fixed with and including mild steel holderbats plugged and screwed to walls	LM	25		
C	Extra over swan neck	NO	8		
D	Ditto shoe	NO	8		
	<u>MILD STEEL WINDOW FRAMES</u>				
	<i>Supply and fix the following purpose made mild steel casement small panes (maximum size 200 x 300 mm) windows, with standard "Z" section framing including all coupling mullions etc and complete with polished brass handles, peg stays and other ironmongery; factory primed with red oxide primer including cutting and pinning fixing lugs to concrete or masonry work jambs; bedding in cement and sand (1:3) mortar, pointing all round frames in mastic, greasing, oiling and adjusting opening lights on completion all in accordance with the Architect's window schedule</i>				
E	Window overall size 1500 x 1500mm high ditto (3.00SM)	NO	7		
	<u>Glazing</u>				
	<u>4mm Clear sheet glass and glazing to metal windows including fixing with approved putty</u>				
F	In panes not exceeding 0.10 square metres including replacement of broken panes	SM	94		
	<u>PAINTING</u>				
	<u>Touch up primer ,prepare and apply two undercoats and one finishing coat gloss paint on metal work</u>				
G	General surfaces of mild steel windows (both sides)	SM	32		
	<u>Window cill</u>				
H	250 x 50mm thick machine cut stone window cill throated and bedded in cement and sand (1:3) mortar to racked external wall window cill: building ends to window jamb	LM	15		
	TOTAL CARRIED TO COLLECTION				
	<u>COLLECTION</u>				
	Collection from page 1				
	Collection from page 2				
	Collection from Above				
	TOTAL CARRIED TO SUMMARY				

PROPOSED RENOVATION WORKS AT KARUNGA PRIMARY SCHOOL.PHASE (I)

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>ELEMENT NO. 7 - P.C SUMS</u>				
A	Allow a provisional sum of kenya shillings One hundred and fifty thousand(Kshs 150,000)only for project management	ITEM			
B	Allow a provisional sum of kenya shillings Two hundred thousand(Kshs 200,000) only for contingency	ITEM			
C	Allow a provisional sum of kenya shillings Two hundred thousand(Kshs 200,000)only for electrical works	ITEM			
TOTAL CARRIED TO SUMMARY					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
			Pg		AMOUNT
<u>GRAND SUMMARY</u>					
	BUILDER'S WORKS		3		
	PROVISIONAL SUM		4		
TOTAL CARRIED TO TENDER DOCUMENT					

AMOUNT IN WORDS.....

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TENDERER'S NAME.....

ADDRESS.....

SIGNATURE.....

OFFICIAL STAMP.....

DATE.....

NAME OF WITNESS.....

SIGNATURE.....

DATE.....